

19.05mmx3.81mm LED LIGHT BARS

KB2350EW HIGH EFFICIENCY RED

KB-B100SRW SUPER BRIGHT RED

KB2450YW YELLOW

KB2550SGD SUPER BRIGHT GREEN

Features

- •UNIFORM LIGHT EMITTING AREA.
- •LOW CURRENT OPERATION.
- EASILY MOUNTED ON P.C. BOARDS.
- •FLUSH MOUNTABLE.
- •EXCELLENT ON/OFF CONTRAST.
- •CAN BE USED WITH PANELS AND LEGEND MOUNTS.
- •CATEGORIZED FOR LUMINOUS INTENSITY, YELLOW AND GREEN CATEGORIZED FOR COLOR.

Description

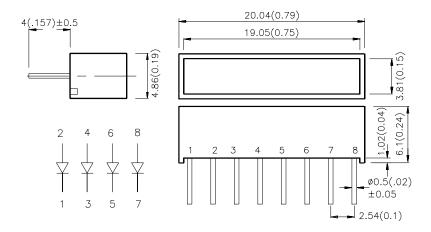
The High Efficiency source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions & Internal Circuit Diagram



Notes:

- All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25 (0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the lead emerge package.
- 4. Specifications are subject to change without notice.

SPEC NO: CDA0836 APPROVED: J.LU REV NO: V.1 CHECKED: DATE: NOV/18/2001 DRAWN: R.X.Jin PAGE: 1 OF 5



Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20 mA	
		,	Min.	Тур.
KB2350EW	HIGH EFFICIENCY RED (GaAsP/GaP)	White Diffused	12	50
KB-B100SRW	SUPER BRIGHT RED (GaAIAs)	White Diffused	80	200
KB2450YW	YELLOW (GaAsP/GaP)	White Diffused	12	50
KB2550SGD	SUPER BRIGHT GREEN (GaP)	Green Diffused	20	70

Electrical Maximum Ratings at T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Super Bright Green Yellow Super Bright Red	627 565 590 660		nm	IF=20mA
λD	Dominate Wavelength	High Efficiency Red Super Bright Green Yellow Super Bright Red	625 568 588 640		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Super Bright Green Yellow Super Bright Red	45 30 35 20		nm	IF=20mA
С	Capacitance	High Efficiency Red Super Bright Green Yellow Super Bright Red	15 15 20 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Super Bright Green Yellow Super Bright Red	2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5	V	IF=20mA
l _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	High Efficiency Red	Super Bright Green	Yellow	Super Bright Red	Units		
Power dissipation	105	105	105	100	mW		
DC Forward Current	30	25	30	30	mA		
Peak Forward Current [1]	160	140	140	155	mA		
Reverse Voltage	5	5	5	5	V		
Operating/Storage Temperature	-40°C To +85°C						
Lead Solder Temperature [2]	260°C For 5 Seconds						

Notes:

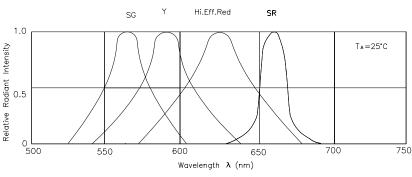
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 4mm below package base.

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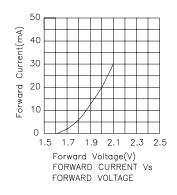
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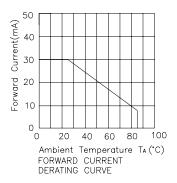


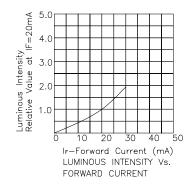


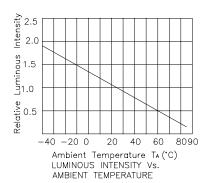
RELATIVE INTENSITY Vs. WAVELENGTH

High Efficiency Red KB2350EW





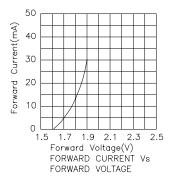


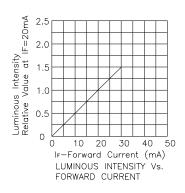


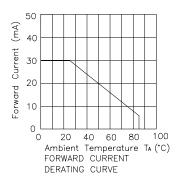
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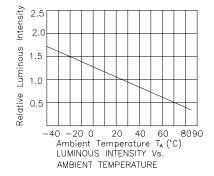
Kingbright

Super Bright Red KB-B100SRW

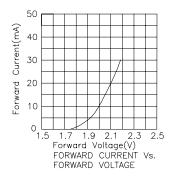


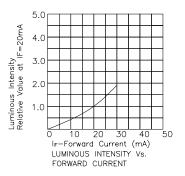


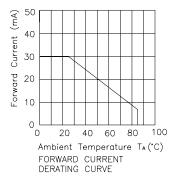


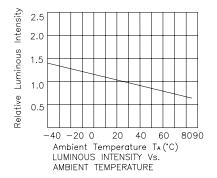


Yellow KB2450YW





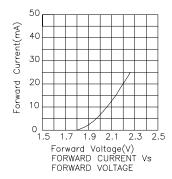


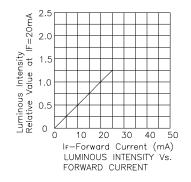


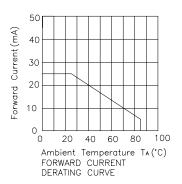
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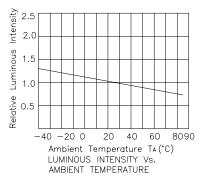
Kingbright

Super Bright Green KB2550SGD









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